Listing of Claims:

Claims 1-8 (Canceled).

- 9. (New) A transgenic mouse whose somatic and germ cells comprising a vector, wherein said vector comprises: a first transgene expression cassette comprising mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter, a second transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator; wherein said insulator and said first expression cassette are located at the 5' or 3' end of said second transgene expression cassette; the number of copies of said chicken beta-globin HS4 insulator is 1-6; and said insulator is in the same or opposite orientation relative said to said first and second expression cassettes in said vector.
- 10. (New) A method of producing a transgenic mouse comprising:
- (a) introducing a vector into a mouse embryo or a mouse ES cell and transferring said ES cell into a zygote;
- (b) transferring said embryo or said zygote comprising said ES cell into a pseudopregnant female mouse;
- (c) allowing said embryo or zygote to develop into an offspring;
- (d) selecting an offspring that expresses said agouti cDNA and has a coat color phenotype;

wherein said vector comprises: a first transgene expression cassette comprising mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter, a second transgene expression cassette comprising RNA polymerase II large subunit promoter,

and a chicken beta-globulin HS4 insulator; wherein said insulator and said first expression cassette are located at the 5' or 3' end of said second transgene expression cassette; the number of copies of said chicken beta-globin HS4 insulator is 1-6; and said insulator is in the same or opposite orientation relative said to said first and second expression cassettes in said vector.

- 11. (New) A vector comprising a first transgene expression cassette comprising mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter, a second transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator; wherein said insulator and said first expression cassette are located at the 5' or 3' end of said second transgene expression cassette; the number of copies of said chicken beta-globin HS4 insulator is 1-6; and said insulator is in the same or opposite orientation relative said to said first and second expression cassettes in said vector.
- 12. (New) A transgenic mouse whose somatic and germ cells comprising a vector, wherein said vector comprises: a dominant mouse coat color transgene expression cassette, a transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator.
- 13. (New) The transgenic mouse of claim 12 wherein said dominant mouse coat color transgene expression cassette comprises mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter.

- 14. (New) The transgenic mouse of claim 12 wherein said dominant mouse coat color transgene expression cassette comprises mouse cDNA operably linked to a mouse tyrosinase promoter.
- 15. (New) The transgenic mouse of claim 12 wherein said insulator and said first expression cassette are placed at the 5' or 3' end of said transgene expression cassette.
- 16. (New) The transgenic mouse of claim 12 wherein the number of copies of said chicken beta-globin HS4 insulator is 1-6.
- 17. (New) The transgenic mouse of claim 12 wherein said insulator is in the same or opposite orientation relative to said first and second expression cassettes.
- 18. (New) A method of producing a transgenic mouse comprising:
- (a) introducing a vector into a mouse embryo or a mouse ES cell and transferring said ES cell into a zygote;
- (b) transferring said embryo or said zygote comprising said ES cell into a pseudopregant female mouse;
- (c) allowing said embryo or zygote to develop into an offspring;
- (d) selecting an offspring that expresses said mouse cDNA and has a coat color phenotype;

wherein said vector comprises: a dominant mouse coat color expression cassette, a transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator.

19. (New) The method of claim 18 wherein said dominant mouse coat color transgene expression cassette comprises mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter.

- 20. (New) The method of claim 18 wherein said dominant mouse coat color transgene expression cassette comprises mouse cDNA operably linked to a mouse tyrosinase promoter.
- 21. (New) The method of claim 18 wherein said insulator and said first expression cassette are placed at the 5' or 3' end of said transgene expression cassette.
- 22. (New) The method of claim 18 wherein the number of copies of said chicken betaglobin HS4 insulator is 1-6.
- 23. (New) The method of claim 18 wherein said insulator is in the same or opposite orientation relative to said first and second expression cassettes.
- 24 (New) A vector comprising a dominant coat color expression cassette, a transgene expression cassette comprising RNA polymerase II large subunit promoter, and a chicken beta-globulin HS4 insulator.
- 25. (New) The vector of claim 24 wherein said dominant mouse coat color expression cassette comprises mouse agouti cDNA operably linked to a human keratinoyte specific K14 promoter.
- 26. (New) The vector of claim 24 wherein said dominant mouse coat color transgene expression cassette comprises mouse cDNA operably linked to a mouse tyrosinase promoter.
- 27. (New) The vector of claim 24 wherein said insulator and said first expression cassette are placed at the 5' or 3' end of said transgene expression cassette.
- 28. (New) The vector of claim 24 wherein the number of copies of said chicken betaglobin HS4 insulator is 1-6.
- 29. (New) The vector of claim 24 wherein said insulator is in the same or opposite

orientation relative to said first and second expression cassettes.